# 10th Class 2019

| Physics | Group-I | Paper-II |
|---|---|---|
| Time: 15 Minutes | (Objective Type) | Max. Marks: 12 |

**Note:** Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

1-1- To measure the value of current flowing in a circuit, which device is used?
   (a) Galvanometer    (b) Ammeter √
   (c) Voltmeter    (d) None of these

2- The brain of any computer system is:
   (a) Monitor    (b) Memory card
   (c) Floppy disc    (d) C.P.U √

3- To correct the defect of vision far-sightedness, which type of lens is used?
   (a) Converging √    (b) Diverging
   (c) Both    (d) None of these

4- The process by which electrons are emitted by a hot metal surface is known:
   (a) Boiling
   (b) Evaporation
   (c) Thermionic emission √
   (d) Conduction

5- When U-92 ejects a beta particle, how many protons will be in the remaining nucleus?
   (a) 93    (b) 89
   (c) 91 √    (d) 90

6- If the mass of the bob of the pendulum is increased by a factor of 3, the time period of the pendulum's motion will be:
   (a) Increased by factor of two
   (b) Remain unchanged ✓
   (c) Decreased by factor of two
   (d) Decreased by factor of four

7- The combined resistance of two identical resistors connected in series is 8 Ohm. Their combined resistance in parallel arrangement will be:
   (a) $4\,\Omega$               (b) $2\,\Omega$ ✓
   (c) $8\,\Omega$               (d) $12\,\Omega$

8- We can distinguish between a shrill and grave sound by its:
   (a) Loudness        (b) Amplitude
   (c) Area            (d) Pitch ✓

9- The turn ratio of a transformer is 10, it means:
   (a) $I_S = 10\,I_P$          (b) $N_S = \dfrac{N_P}{10}$ ✓
   (c) $V_S \dfrac{V_P}{10}$    (d) $N_S = 10\,N_P$

10- S.I unit of capacitance of a capacitor is:
   (a) V               (b) A
   (c) F ✓             (d) N

11- To get virtual image from a convex lens, the object is kept:
   (a) On F                     (b) Between F and 2F
   (c) Between O and F ✓        (d) Beyond 2F

12- Typical value of the voltage and current used for thermionic emission from tungsten filament is:
   (a) 6 V and 0.3 A ✓   (b) 12 V and 0.3 A
   (c) 12 V and 3 A      (d) 6 V and 3 A